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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/467,210	12/20/1999	DAE-HEON KWON	678-405	2053
7590 08/12/2005			EXAMIN	INER
PAUL J FARRELL ESQ DILWORTH & BARRESE 333 EARLE OVINGTON BLDG UNIONDALE, NY 11553			TRAN, HAI V	
			ART UNIT	PAPER NUMBER
			2611	
			DATE MAILED: 08/12/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/467,210	KWON ET AL.			
		Examiner	Art Unit			
		Hai Tran	2611			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. s period for reply specified above is less than thirty (30) days, a reply operiod for reply is specified above, the maximum statutory period v tre to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
1)🛛	Responsive to communication(s) filed on 28 Ju	<u>uly 2005</u> .				
2a)⊠	This action is FINAL . 2b)☐ This	action is non-final.				
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	, <u> </u>					
Applicat	ion Papers					
9) The specification is objected to by the Examiner.						
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority ι	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	• •					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail Da	(PTO-413)			
3) 🔲 Inforr	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		atent Application (PTO-152)			

DETAILED ACTION

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Response to Arguments

Applicant's arguments filed 07/28/2005 have been fully considered but they are not persuasive.

Claim 1, Applicant argues, "the system in Lagoni never switches from one mode to another, but instead, activates the caller ID (phone mode) with the TV mode when a call is being received."

In response, the Examiner agrees with Applicant above assertion. However, in the previous Office Action, the Examiner did not mean that Lagoni 's system actually "automatically" switching from to TV mode to the phone mode. The Examiner intends to convey to Applicant that once the call is answered, Lagoni 's Telephone Network Interface Unit 126 is 126 is setting/getting/continuing/resuming back to its previous state of monitoring a future incoming caller-id message of a new incoming call (see Fig. 5 at el. 530 indicates with "Yes" branching that a call is answered). Beside, Lagoni does not prevent user, during the phone conversation, of not manually power off the TV or reducing the TV sound.

Again, the examiner asserts that Lagoni was not applied in the previous office action to poweroff the sound or video of the TV when the caller ID is received. The Examiner relies on Porco (Col. 3, lines 44-Col. 5, lines 27) to meet Applicant claimed limitation of powering off the sound or video of the TV when the telephone call is received in which Porco system interrupts a power supply voltage supplied to the

audio/radio module and automatically switching from audio/radio mode to the phone mode when Porco' s system receive an incoming phone call.

For at least the reason set forth above, the rejection is maintained.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-4, 6-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kikinis (US 6243596) in view of Tsukamoto et al. (US 5005013) and further in view of Lagoni et al. (US 6141058) and further in view of Porco (US 4873712).

Regarding claim 1, Kikinis discloses a cellular phone in which a TV tuner and receiver is installed in battery pack adapter 100 to allow user to receive and view television (see Fig. 9-12; Col. 17, lines 34-41).

Kikinis does not clearly disclose in detail "a TV module for receiving and demodulating a desired TV channel signal among radio-frequency electromagnetic signals received in response to an input of a tuning signal, when the TV module operates by supply of a power supply voltage, to generate a composite video signal, a composite synchronizing signal and a composite audio signal"; "a TV control section for supplying the tuning signal corresponding to a channel selection

command signal to the TV module, synchronizing On Screen Display (OSD) data corresponding to display control data and display data with the composite synchronizing signal to output the synchronized signal as a video signal" and "A display unit for synchronizing the composite video signal from the TV module and the video signal from the TV control section with the composite synchronizing signal and displaying the synchronized composite video signal and the video signal on an image viewing screen"; However, Kikinis discloses a TV tuner and receiver is installed in battery pack 1 adapter 100 to allow the user to receive and view television (Col. 17, lines 34-41) on a display unit LCD 202.

Tsukamoto shows a hand-held device with a TV module for receiving and demodulating a desired TV channel signal among radio-frequency electromagnetic signals received (antenna 2 receives a TV broadcast radio wave and a radio wave generated from a Radio transmission station of telephone office; Col. 3, lines 36-41) in response to an input of a tuning signal, when the TV module operates by supply of a power supply voltage (Col. 4, lines 4-10), to generate a composite video signal, a composite synchronizing signal and a composite audio signal (Col. 4, lines 10-21) and a TV control section for supplying the tuning signal corresponding to a channel selection command signal to the TV module, synchronizing On Screen Display (Timing Control Circuit 35) data corresponding to display control data and display data with the composite synchronizing signal to output the synchronized signal as a video signal (Fig. 2 & 14; Col. 4, lines 4-64; Col. 10, lines 4-40 and Col. 13, lines 25-62). A display unit 3 (Fig. 2 and 14) for synchronizing the composite video signal

from the TV module and the video signal from the TV control section with the composite synchronizing signal and displaying the synchronized composite video signal and the video signal on an image viewing screen (Col. 14, lines 25-41). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kikinis' s Video driver 402 with the LCD's video circuitry driver, as taught by Tsukamoto, so to take the advantage of the well known design of the LCD video circuitry driver to drive the LCD to display the received video signal.

Moreover, Kikinis 's Cellular phone (MRFU) performs a two-way conversation in which CPU 401 (MSP) continuously processes both incoming and outgoing audio data. The incoming voice signal is received through a forward channel, demodulated and outputted to the audio speaker and the outgoing voice signal (reply back) is modulated from the microphone 203 and transmitted out on the reverse channel. Therefore, Kikinis 's Cellular phone (MRFU) encompasses the claimed limitation "a Mobile Station Radio Frequency Unit (MRFU) for demodulating a signal indicative of an incoming call received through a forward channel, forming an audio conversion channel among the received radio-frequency electromagnetic signals to output the demodulated signal, and modulating and transmitting a signal in a reverse channel"

Kikinis further discloses CPU 401 (A Mobile Station Processor) for establishing a phone mode for conversation or TV mode for displaying the received TV signal from the TV tuner on an image viewing screen (LCD 202) in response to an user selection.

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Kikinis does not disclose, "demodulating a signal indicative of an incoming call".

Lagoni discloses a television/telephone system (Fig. 1) wherein the telephone network interface 126 detects and demodulates a signal indicative of an incoming call received through a pair of conductors Tip (T) and Ring (R) (Col. 4, lines 4-7 and lines 14-17); Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kikinis' s cellular phone system to detect the incoming telephone signal and display an alert message, i.e. Calling ID, as taught by Lagoni, so to notify the user of an incoming call while watching the TV and also to give the user a choice to answer or not to answer the incoming call based on the displayed Caller Id while watching a TV program (Col. 1, lines 17-23).

As to limitation "A Mobile Station Processor (MSP) for establishing a phone or TV mode in respond to an Input command, generating the channel selection command signal stored in a predetermined memory area by setting the TV mode, interrupting a power supply voltage supplied to the TV module an switching from TV mode to the phone mode according to a preset incoming call alarm mode when receiving an incoming signal from the MRFU, and processing audio data outputted from the MRFU to output the processed audio data signal while supplying audio data to the MRFU", Lagoni further discloses a controller 110 (MSP) for establishing TV mode in response to an input command from the RC 125, generating the channel-related data (channel selection command signal) stored in a predetermined RAM (memory area) (Col. 3, lines 1-3) by setting the switched ON of the Television

receiver (TV mode) (Col. 4, lines 25-28), Controller 110 supplies the display control data via control line 141 to the OSD processor 140 (Col. 3, lines 61-65+) according to a Priority List Caller ID (preset incoming call alarm mode) when receiving an incoming signal from the telephone network interface 126 (MRFU) (Col. 4, lines 18-32), and answering the call (processing audio data outputted from the MRFU to output the processed audio data signal while supplying audio data to the MRFU) by switching from TV mode to Phone mode;

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Kikinis in view of Tsukamoto and Lagoni does not clearly disclose "interrupting a power supply voltage supplied to the TV module and automatically switching from TV mode to the phone mode". However, Lagoni discloses that once the call is answered (see Fig. 5 at el. 530 indicates with "Yes" branching that a call is answered; Col. 4, lines 55-Col. 5, lines 18), Lagoni 's Telephone Network Interface Unit 126 is setting/getting/continuing/resuming back to its previous state of monitoring a future incoming caller-id message of a new incoming call.

Porco discloses "interrupting a power supply voltage supplied to the Audio/Radio module and automatically switching from audio/Radio mode to the phone mode" (Col. 3, lines 44-Col. 5, lines 27). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kikinis in view of Tsukamoto and Lagoni with Porco, so to interrupt the associated secondary accessory; i.e., TV, whose concurrent operation would be interfering and distracting during operation of the telephone, as suggested by Porco (Col. 1, lines 1-13).

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Regarding claim 2, in view of the discussion in claim 1, neither Kikinis nor Lagoni clearly disclose a power switch disposed between the TV module and a power supply unit, the power switch being switched under the control of the MSP (Mobile Station Processor) to turn ON/OFF the TV module.

Tsukamoto further discloses a power switch (switch 6 'TV OFF mode', Fig. 1) disposed between the TV module and the AC power supply (not show), the power switch being switched under the control of the CPU 23 (MSP) to turn ON/OFF the display 3 (Fig. 9, steps B1, B2, B3, **B4** for TV OFF mode, B7 and **B8** for ON; Col. 9, lines 59-Col. 10, lines 3 and Col. 12, lines 54-62).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to supply a power switch, as taught by Tsukamoto, so the Kikinis' s TV-Phone is able to display message of the incoming call while the system is under power saving mode, i.e., standby/sleep mode of powering off the display and the TV mode is OFF but not the main unit.

Regarding claim 3, in view of the discussion in claim 1, neither Kikinis nor Lagoni clearly disclose the a Radio Frequency Switch (RFSW) allowing an antenna to be connected to both the TV module and the Mobile Station RF unit (MRFU) in response to establishment of the TV mode of the Mobile Station processor (MSP) and allowing the antenna to be connected to only the MRFU in response to the establishment of the phone mode of the MSP.

Tsukamoto discloses an antenna 2 receives a TV broadcast Radio wave and a radio wave generated from a radio transmission station of a telephone service (Fig. 1; Col. 3, lines 12-39; Fig. 9 shows an algorithm of how the switch 6 function, i.e., switch 6 on VHF/UHF position, works with CPU 23) in response to the establishment of the TV mode of the CPU 23 (MSP), and allowing the antenna 2 to be connected to only the Pager mode (MRFU) in response to the establishment of the Pager mode only (switch 6 on OFF position) of the CPU 23 (MSP). Thus, Tsukamoto' switch 6 is a RFSW.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kikinis' TV-phone with an RF switch/RFSW connects an antenna to the TV module and the Mobile Station RF unit (MRFU), as taught by Tsukamoto, so that the TV-phone receives both signals simultaneously, TV and phone, and allows user to view TV while the phone receiver works in the background to alert the viewer of an incoming call (Col. 13, lines 7-10).

Regarding claim 4, in view of the discussion in claim 1, Lagoni further discloses wherein the TV mode allowing for viewing of a TV image (if TV receiver is switched ON, i.e., active and able to display a picture; Col. 4, lines 27-28), an incoming call alarm mode of the TV phone upon reception of an incoming call (displays Caller ID; Col. 4, lines 23-31) further comprises displaying an incoming call character message at a specific region of a TV image-viewing screen (Fig. 4).

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Regarding claim 6, in view of the discussion in claim 1, Lagoni further discloses wherein the TV mode allowing for viewing of a TV image (if TV receiver is switched ON, i.e., active and able to display a picture; Col. 4, lines 27-28), an incoming call alarm mode of the TV phone in the control circuit 64 (MSP) upon reception of an incoming call further comprises displaying an incoming call character message (displays Caller ID; Col. 4, lines 23-31) at a specific region of a TV image-viewing screen (Fig. 4).

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Regarding claim 7, is further met in view of the above discussion in claim 1, in which at least a control circuit (MSP; Lagoni' s Fig. 1, el. 110 and Porco' Fig. 1, el. 18) upon reception of an incoming call to perform two-way conversation (Lagoni' s Fig. 5 and Porco' s Fig. 1) based on the preset incoming call alarm mode (the TV mode is ON; Lagoni Col. 5, lines 55-Col. 5, lines 17and Porco Col. 3, lines 44-Col. 5, lines 27) by switching at least of a power switch (Porco' s Fig. 1; el. 16), and the TV control section (Lagoni' s Fig. 1, el. 102-104, 140, 130135, 155, 137, 145, 156, 158 and 160).

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kikinis (US 6243596) in view of Tsukamoto et al. (US 5005013) and further in view of Lagoni et al. (US 6141058) and further in view of Porco (US 4873712), and further in view of Hoffman et al. (US 4427847).

Regarding claim 5, in view of the discussion in claim 1, Lagoni further discloses wherein the TV mode allowing for viewing of a TV image (if TV receiver is switched ON, i.e., active and able to display a picture; Col. 4, lines 27-28), an incoming call alarm mode of the TV phone upon reception of an incoming call (displays Caller ID; Col. 4, lines 23-31).

Kikinis in view of Tsukamoto, Lagoni and Porco does not clearly disclose upon reception of an incoming call further comprises switching off and on, at a predetermined interval, only the audio signal outputted from the TV module.

Hoffman discloses upon reception of an incoming call comprises switching off and on, at a predetermined interval, only the audio signal outputted from the TV module (audible alarm signal of telephone ring; Col. 5, lines 10-26).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kikinis in view of Tsukamoto, Lagoni and Porco that upon reception of an incoming call comprises switching off and on of an audible sound outputted from the TV module, as taught by Hoffman, so to alert the viewer of an incoming call with an audible sound (Col. 5, lines 22-26).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

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TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai Tran whose telephone number is 703-308-7372. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher C. Grant can be reached on 703-305-4755. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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> HAITRAN PRIMARY EXAMINER :